

DECLARATION AND POWER OF ATTORNEY U.S.A.

FOR ATTORNEY'S USE ONLY

ATTORNEYS' DOCKET NO.

P67201US0

ALL PATENTS, INCLUDING DESIGN
FOR APPLICATION BASED ON PCT: PARIS CONVENTION;
NON PRIORITY: OR PROVISIONAL APPLICATIONS

As a below named inventor, I declare that my residence, post office address and citizenship are stated below next to my name, the information given herein is true, that the original, first and sole inventor (if only one name is listed at 201 below), or an original, first and joint inventor (if plural inventors are named below at 201-203, or o attached hereto) of the subject matter which is claimed and for which patent is sought on the invention entitled:

ULTRA SMALL SIZE VERTICAL MOSFET DEVICE AND METHOD FOR THE MANUFACTURE THEREOF

which is described and claimed in:

☐ PCT international Application No. _____ filed _____

☒ the attached specification

☐ the specification in application Serial No. _____ filed _____

(if applicable) and amended on _____

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above. I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, § 1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, § 119 (a)-(b) of any foreign application(s) for patent or inventor's certificate listed below and below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

Prior Foreign Application(s)

Priority Claimed

2001-16190
(Number)

REPUBLIC OF KOREA
(Country)

28/03/2001
(Day/Month/Year Filed)

☒ Yes ☐ No

(Number)

(Country)

(Day/Month/Year Filed)

☐ Yes ☐ No

(Number)

(Country)

(Day/Month/Year Filed)

☐ Yes ☐ No

I hereby claim the benefit under Title 35, United States Code, § 119(e) of any United States provisional application(s) listed below:

Application No. _____

Filing Date _____

Application No. _____

Filing Date _____

I hereby claim the benefit under Title 35, United States Code, § 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claim is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, § 112, I acknowledge the duty to which is material to patentability as defined in Title 37, Code of Federal Regulations § 1.56 which became available between the filing date of the prior application and the international filing date of this application:

(Application Serial No.)

(Filing Date)

(Status: patented, pending, abandoned)

POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorneys(Registration No.) to prosecute this application on instructions from my agent, and transact all business in the Patent and Trademark Office connected therewith. HARVEY B. JACOB D. DOUGLAS PRICE (24,514); JOHN CLARKE HOLMAN (22,769), MARVIN R. STERN (20,640); MICHAEL R. SLOBASKY (26,421); SCHERER (29,851); IRWIN M. AISENBERG (19,007); WILLIAM E. PLAYER (31,409), YOON S. Ham (45,307)

SEND CORRESPONDENCE TO:

JACOBSON, PRICE, HOLMAN & STERN
PROFESSIONAL LIMITED LIABILITY COMPANY
400 Seventh Street, N.W.
Washington, D.C. 20004


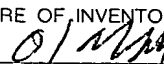
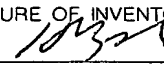
DIRECT TELEPHONE CALLS TO:
(please use Attorney's Docket No.) (202) 638-6666

JACOBSON, PRICE, HOLMAN & STERN
PROFESSIONAL LIMITED LIABILITY COMPANY

* Inventor(s) name must include at least one unabbreviated first or middle name.

201	FULL NAME OF INVENTOR	FAMILY NAME	GIVEN NAME		MIDDLE NAME
		CHO	WONJU		
	RESIDENCE & CITIZENSHIP	CITY	STATE OR FOREIGN COUNTRY		COUNTRY OF CITIZENSHIP
		TAEJON	KOREA		REPUBLIC OF KOREA
	POST OFFICE ADDRESS	CITY		STATE OR COUNTRY	ZIP CODE
		#113-401 HANBIT APT., EOEUN-DONG, YUSONG-GU,		TAEJON	KOREA
202	FULL NAME OF INVENTOR	FAMILY NAME	GIVEN NAME		MIDDLE NAME
		LEE	SEONG JAE		
	RESIDENCE & CITIZENSHIP	CITY	STATE OR FOREIGN COUNTRY		COUNTRY OF CITIZENSHIP
		TAEJON	KOREA		REPUBLIC OF KOREA
	POST OFFICE ADDRESS	CITY		STATE OR COUNTRY	ZIP CODE
		#105-804 DAELIM APT., SINSEONG-DONG, YUSONG-GU,		TAEJON	KOREA
203	FULL NAME OF INVENTOR	FAMILY NAME	GIVEN NAME		MIDDLE NAME
		PARK	KYOUNG WAN		
	RESIDENCE & CITIZENSHIP	CITY	STATE OR FOREIGN COUNTRY		COUNTRY OF CITIZENSHIP
		TAEJON	KOREA		REPUBLIC OF KOREA
	POST OFFICE ADDRESS	CITY		STATE OR COUNTRY	ZIP CODE
		#107-902 NARAE APT., JEONMIN-DONG, YUSONG-GU,		TAEJON	KOREA

further declare that all statements made herein of my own knowledge are true and that all statements made on information and believed to be true; and further that the made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment or both, under section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

SIGNATURE OF INVENTOR 201- 	SIGNATURE OF INVENTOR 202- 	SIGNATURE OF INVENTOR 203- 
DATE 04/10/2001	DATE 04/10/2001	DATE 04/10/2001



DECEMBER 26, 2001

PTAS

Under Secretary of Commerce For Intellectual Property and
Director of the United States Patent and Trademark Office
Washington, DC 20231
www.uspto.gov

JACOBSON, PRICE ET AL
400 SEVENTH STREET, N.W.
WASHINGTON, D.C. 20004



101880972A

UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 10/15/2001

REEL/FRAME: 012255/0650
NUMBER OF PAGES: 2

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

CHO, WONJU

DOC DATE: 10/04/2001

ASSIGNOR:

LEE, SEONG JAE

DOC DATE: 10/04/2001

ASSIGNOR:

PARK, KYOUNG WAN

DOC DATE: 10/04/2001

ASSIGNEE:

ELECTRONICS AND TELECOMMUNICATIONS
RESEARCH INSTITUTE
161 KAJONG-DONG, YUSONG-GU,
TAEJON, REPUBLIC OF KOREA

SERIAL NUMBER: 09975963
PATENT NUMBER:

FILING DATE: 10/15/2001
ISSUE DATE:

012255/0650 PAGE 2

STEVEN POST, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

10-22-2001

Washington, D.C. 20231

FORM PTO-1619A

RECORDATION



DEPARTMENT OF COMMERCE

(Rev. 8-99)

PAT

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Patent and Trademark Office

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original document or copy thereof.

1. Submission Type <input checked="" type="checkbox"/> New <i>10/15/01</i> <input type="checkbox"/> Resubmission (Non-Recordation) Document ID # _____ <input type="checkbox"/> Correction of PTO Error Reel # _____ Frame # _____ <input type="checkbox"/> Corrective Document Reel # _____ Frame # _____		2. Name of Conveying Party(ies): CHO, WONJU LEE, SEONG JAE PARK, KYOUNG WAN Additional Name(s) of conveying party(s) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
3. Name and Address of Receiving Party(ies): Name: <u>ELECTRONICS and TELECOMMUNICATIONS</u> <u>RESEARCH INSTITUTE</u> Street Address: <u>161 Kajong-dong, Yusong-gu,</u> _____ City: <u>Taejon</u> State/Country: <u>Korea</u> Zip: _____ Additional name(s) & address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		4. Nature of conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other: _____ Execution Date: <u>10042001</u>	
5. Application number(s) or patent number(s): If this document is being filed together with a new application, <input checked="" type="checkbox"/> the first execution date of the application is: <u>10042001</u> <input checked="" type="checkbox"/> the filing date of the application is: <u>10152001</u> <i>09/975963</i> A. Patent Application No.(s) _____ B. Patent No.(s) _____			
6. Name and address of party to whom correspondence concerning this matter should be mailed: <u>CUSTOMER NUMBER 00136</u> or <u>JACOBSON, PRICE, HOLMAN & STERN, PLLC</u> <u>400 Seventh Street, N.W.</u> <u>Washington, DC 20004</u> <u>Tel. 202-638-6666</u> Attorney Docket No. <u>P67201US0</u>		7. Number of applications and patents <u>1</u> 8. Total fee (37 CFR 3.41) \$ <u>40.00</u> <input checked="" type="checkbox"/> Enclosed <input checked="" type="checkbox"/> Any deficiencies in enclosed fees are authorized to be charged to deposit account <u>06-1358</u>	
DO NOT USE THIS SPACE			
10. Statement and Signature. To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. <u>Yoon S. Ham/45,307</u> <i>[Signature]</i> <u>October 15, 2001</u> Name of Person Signing/Reg. No. Signature Date Total number of pages excluding cover sheet: <u>1</u>			

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UNITED STATES OF AMERICA—ASSIGNMENT

(1-6) Insert Name(s) of Inventors

- (1) CHO, WONJU
 (2) LEE, SEONG JAE
 (3) PARK, KYOUNG WAN
 (4) _____
 (5) _____
 (6) _____

In consideration of the sum of one dollar (\$1.00), and other good and valuable consideration to each of the undersigned, the receipt and sufficiency of which are hereby acknowledged, the undersigned agree(s) to assign, transfer and set over to

(7) Insert Name of assignee

(7) ELECTRONICS AND TELECOMMUNICATIONS RESEARCH INSTITUTE

(8) Insert Address of Assignee

(8) of 161 Kajong-dong, Yusong-gu, Taejon, Korea

(9) Insert Legal Entity and State or Country (e.g., a corporation or citizen of Japan)

(9) a Institute of Republic of Korea
 (hereinafter designated as the Assignee) the entire right, title and interest for the United States, territories, dependencies and possessions, in the invention known as

(10) Insert Identification of Invention, such as Title, Case Number or Foreign Application Number

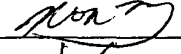

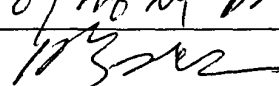
(10) ULTRA SMALL SIZE VERTICAL MOSFET DEVICE AND METHOD FOR THE MANUFACTURE THEREOF

(11) Insert Date of Signing of Application, or filing date and Serial No., if known

for which the undersigned has (have) executed an application for patent in the United States of
 (11) Said application having been executed/ filed on October 15, 2001 (and a Serial No. New Application)

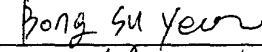
- 1) The undersigned agree(s) to execute all papers necessary in connection with this application and any continuing or divisional thereof and also to execute separate assignments in connection with such application as the Assignee may deem necessary or expedient.
- 2) The undersigned agree(s) to execute all papers necessary in connection with any interference which may be declared in connection with this application or any continuing or divisional applications thereof and to cooperate with the Assignee in every way possible in obtaining such interference.
- 3) The undersigned agree(s) to execute all papers and documents and perform any act which may be necessary in connection with the provisions of the International Union for Protection of Industrial Property or similar agreements.
- 4) The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States Patent.
- 5) The undersigned hereby authorize(s) and request(s) the Commissioner of Patents and Trademarks to issue any and all Letters Patent resulting from this application or any continuing or divisional applications thereof to the said Assignee, as Assignee of the undersigned and hereby covenants that he has (they have) full right to convey the entire interest herein assigned, and that he has (they have) no other interest in the invention.
- 6) The undersigned hereby grant(s) the law firm of Jacobson, Price, Holman & Stern, 400 Seventh Street, N.W., Washington, D.C. 20004, power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).

Date <u>04/10/2001</u>	Name of Inventor <u>CHO, WONJU</u> typed name	 (SEAL)
Date <u>04/10/2001</u>	Name of Inventor <u>LEE, SEONG JAE</u> typed name	 (SEAL)
Date <u>04/10/2001</u>	Name of Inventor <u>PARK, KYOUNG WAN</u> typed name	 (SEAL)
Date _____	Name of Inventor _____ typed name	(SEAL)
Date _____	Name of Inventor _____ typed name	(SEAL)
Date _____	Name of Inventor _____ typed name	(SEAL)
Date _____	Name of Inventor _____ typed name	(SEAL)

This assignment should preferably be signed before a United States Consul if signed abroad, or a Notary Public if signed domestically. If not, then the execution by the inventor(s) should be witnessed by at least two witnesses who sign

☐ A additional inventor's names and signatures on a separate sheet.

Witness BONG, SU-YEON 
 Witness CHOI, JIN 